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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,286	08/06/2001	Sauro Macerini	N-6811	9041

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WADDEY & PATTERSON
414 UNION STREET, SUITE 2020
BANK OF AMERICA PLAZA
NASHVILLE, TN 37219

EXAMINER

NGUYEN, DONGHAI D

ART UNIT	PAPER NUMBER
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3729

DATE MAILED: 08/15/2003

10

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/923,286

Applicant(s)

MACERINI, SAURO

Examiner

Donghai D. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 08 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-66 is/are pending in the application.
- 4a) Of the above claim(s) 20-66 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Response to Amendment

1. The proposed amendment to the specification and drawing filed on July 8, 2003 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 4,103,267 to Olschewski.

Olschewski discloses a method of producing an electrical component, comprising the steps of: folding a plurality of segments (24) of electrically conductive material partially around a container (19) to form a plurality of U-shaped half-turns (8); and connecting the plurality of half-turns to the container (Fig. 1).

4. Claims 1 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 4,975,671 to Dirks.

Dirks discloses a method of producing an electrical component, comprising the steps of: folding a plurality of segments (7) of electrically conductive material partially around a container (3) to form a plurality of U-shaped half-turns (7); and connecting the plurality of half-turns to the container (Fig. 3).

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5. Claims 1-6 and 11-15 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 5,430,613 to Hastings et al.

Regarding claims 1 and 11, Hastings et al disclose a method of producing an electrical component, comprising the steps of: folding a plurality of segments (26) of electrically conductive material partially around a container (24) to form a plurality of u-shaped half-turns (26); and connecting the plurality of half-turns to the container (Fig. 1).

Regarding claims 2 and 12-13, Hastings et al disclose the step cutting/punch (Col. 6, lines 35-37) the plurality of segments out of a sheet of electrically conductive material so that the segments are arranged in a dial-shaped pattern with one end of each segment connected to an inner ring (39) and another end of each segment connected to an outer ring (inherence); and detaching each segment from the inner and outer rings (col. 7, lines 28-30).

Regarding claims 3 and 4, Hastings et al disclose the step of folding the plurality of segments includes the steps of: folding a first portion connected to an intermediate portion of each segment down against a first upper edge of the container; folding a second portion connected to the intermediate portion of each segment down against a second upper edge of the container; folding a third portion connected to the first portion of each segment inward against or outward away from a first lower edge of the container; and folding a fourth portion connected to the second portion of each segment inward against or outward away from a second lower edge of the container (Figs 1 and 3).

Regarding claims 5 and 14, Hastings et al disclose the step of inserting a ferro-magnetic core (22) into the container (Fig. 2).

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In regard to claims 6 and 15, Hastings et al. disclose the step of wrapping an electrically conductive wire (13) around the ferro-magnetic core (22, col. 6, lines 667-68).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 7-9 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hastings et al in view of Dirks.

Regarding claims 7-8 and 16-17, Hastings et al do not disclose the step of connecting the plurality of half-turns in two electrically insulated layers; integrating a portion of the plurality of half-turns into the container and attaching the remaining half-turns to an outer surface of the container. However Dirks teaches the step of connecting the plurality of half-turns in two electrically insulated layers (23, 24 in fig. Fig. 9), integrating a portion of the plurality of half-turns into the container; and attaching the remaining half-turns to an outer surface of the container (Fig. 9), for controlling the leakage inductance from the primary to the secondary winding (col. 8, lines 17-23). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Hastings et al to connect the plurality of half-turns in two electrically insulated layers as taught by Dirks for controlling leakage inductance.

Regarding claims 9 and 18, Hastings et al discloses the step of connecting the combination of the container and the plurality of half-turns to a mounting structure by connecting

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the plurality of half-turns to a plurality of electrically conductive tracks on the mounting structure (12/14), the half-turns and the conductive tracks forming a plurality of electrically conductive turns (Figs. 2, 4-5).

8. Claims 10 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hastings et al in view of Dirks as applied to claims 7-9 and 17-18 above, and further in view of US patent 4,536,733 to Shelly.

Hastings et al, as modify, do not disclose the step of connected the turns in series, parallel, or a combination of series and parallel. Shelly teaches the step of connected the turns (C1-C16) in series, parallel, or a combination of series and parallel (col. 5, lines 5-11) for forming a parallel-serial interconnection specified (col. 5, lines 32-33). It would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify Hastings et al to connect the turns in series, parallel, or a combination of series and parallel as taught by Shelly for forming a parallel-serial interconnection specified.

Response to Arguments

9. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghai D. Nguyen whose telephone number is (703) 305-7859.

The examiner can normally be reached on Monday-Friday (9:00-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter D. Vo can be reached on (703) 308-1789. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 305-3579 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

DN
August 11, 2003

A handwritten signature in black ink, appearing to read 'PETER VO', is written over a horizontal line. The signature is stylized with a large loop and a long horizontal stroke.

PETER VO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700